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Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.10/GR/CEMENT/2012-13

Date: 06.02.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Gopireddy**, Contractor, Bangalore.
NAME OF THE WORK	:	Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	169 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	495 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CTCE/BBMP/W.No.10/GR/SAND/2012-13 : 06.02.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Gopireddy**, Contractor, Bangalore.

Name of Work : Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013

Date of Testing : 06.02.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	4.45	4.45	95.6	90-100
2.36	245	12.25	16.70	83.3	75-100
1.18	432	21.60	38.30	61.7	55-90
600 Micron	507	25.35	63.65	36.4	35-59
300 Micron	469	23.45	87.10	12.9	8-30
150 Micron	132	6.60	93.70	6.3	0-10

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Job No.: CTCE/BBMP/W.No.10/GR/AGG/2012-13 : 06.02.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Gopireddy**, Contractor, Bangalore.

Name of Work : Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013

Date of Testing : 06.02.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	972	3.89	3.89	96.11	95-100
20	16248	64.99	68.88	31.12	30-70
10	4986	19.94	88.82	11.18	10-35
4.75	2328	9.31	98.14	1.86	0-5

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Job No.: CTCE/BBMP/W.No.10/GR/AGG/2012-13 : 06.02.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Gopireddy**, Contractor, Bangalore.

Name of Work : Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013

Date of Testing : 06.02.2013

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	187	3.74	3.7	96.26	95-100
10	3326	66.52	70.3	29.74	25-55
4.75	1213	24.26	94.5	5.48	0-10

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Job No.: CTCE/BBMP/W.No.10/GR/STEEL/2012-13 08.02.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Gopireddy,** Contractor, Bangalore.
Name of the Work	:	Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013
Date of Test	:	08.02.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	513	545	12.85	O.K	O.K
2	10	0.62	517	548	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/GR/CUBE/2012-13

15.03.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Gopireddy**, Contractor, Bangalore.
Name of the Work	: Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2013	15.03.2013	8.147	471.5	20.96
2	15.02.2013	15.03.2013	8.252	492.4	21.88
3	15.02.2013	15.03.2013	8.343	511.3	22.72

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Job No.: CTCE/BBMP/W.No.10/GR/CUBE/2012-13

18.03.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Gopireddy**, Contractor, Bangalore.
Name of the Work	: Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2013	18.03.2013	8.357	469.2	20.85
2	18.02.2013	18.03.2013	8.186	484.5	21.53
3	18.02.2013	18.03.2013	8.213	503.6	22.38

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21.03.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Gopireddy**, Contractor, Bangalore.
Name of the Work	: Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.02.2013	21.03.2013	8.135	479.5	21.31
2	21.02.2013	21.03.2013	8.243	505.4	22.46
3	21.02.2013	21.03.2013	8.376	523.8	23.28

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25.03.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Gopireddy**, Contractor, Bangalore.
Name of the Work	: Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2013	25.03.2013	8.349	509.7	22.65
2	25.02.2013	25.03.2013	8.267	481.5	21.40
3	25.02.2013	25.03.2013	8.421	527.8	23.46

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28.03.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Gopireddy**, Contractor, Bangalore.
Name of the Work	: Providing RCC drain in Main Roads and Cross roads of Kalappa Layout in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/Vidyaranyapura/PR/395/2012-13 Dated: 04.02.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2013	28.03.2013	8.139	486.7	21.63
2	28.02.2013	28.03.2013	8.227	503.4	22.37
3	28.02.2013	28.03.2013	8.371	528.6	23.49

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